

FORM PTO-1390  
(REV 12-29-99)

DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

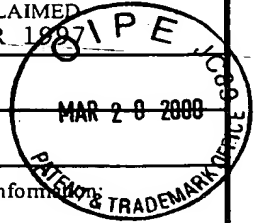
ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

45300-59676

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/508967

INTERNATIONAL APPLICATION NO.  
PCT/SE98/01675INTERNATIONAL FILING DATE  
18 SEPTEMBER 1998PRIORITY DATE CLAIMED  
19 SEPTEMBER 1997TITLE OF INVENTION  
MALARIA POLYPEPTIDESAPPLICANT(S) FOR DO/EO/US Mats WAHLGREN, Antonio BARRAGAN, Jöhan CARLSON  
Chên QIJUN and Victor FERNANDEZ


Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
  2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
  3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
  4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
  5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
    - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
    - b. ☐ has been transmitted by the International Bureau.
    - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
  6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
  7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
    - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
    - b. ☐ have been transmitted by the International Bureau.
    - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
    - d. ☐ have not been made and will not be made.
  8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
  9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
  10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
- Items 11. to 16. below concern document(s) or information included:
11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
  12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
  13. ☒ A **FIRST** preliminary amendment.  
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
  14. ☐ A substitute specification.
  15. ☐ A change of power of attorney and/or address letter.
  16. ☒ Other items or information: Sequence Listing (10 pages)  
International Preliminary Examination Report  
International Search Report  
Patent Data Entry Sheet

422 Rec'd PCT/PTO 20 MAR 2000

|   |  |                               |  |                          |  |
|---|--|-------------------------------|--|--------------------------|--|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) |  | INTERNATIONAL APPLICATION NO. |  | ATTORNEY'S DOCKET NUMBER |  |
| 09/5089   |  | PCT/SE98/01                   |  | 45300-59676              |  |

| <p>17. <input checked="" type="checkbox"/> The following fees are submitted:</p> <p><b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)):</b></p> <p>Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... \$970.00</p> <p>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... \$840.00</p> <p>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$690.00</p> <p>International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... \$670.00</p> <p>International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$96.00</p> <p style="text-align: right;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></p> <p>Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">CLAIMS</th> <th style="width: 15%;">NUMBER FILED</th> <th style="width: 15%;">NUMBER EXTRA</th> <th style="width: 15%;">RATE</th> <th style="width: 15%;"></th> <th style="width: 15%;"></th> </tr> <tr> <td>Total claims</td> <td>32 - 20 =</td> <td>12</td> <td>X \$18.00</td> <td>\$</td> <td>216</td> </tr> <tr> <td>Independent claims</td> <td>3 - 3 =</td> <td>0</td> <td>X \$78.00</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$260.00</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td>\$</td> <td>1,316</td> </tr> <tr> <td colspan="4">Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>SUBTOTAL =</b></td> <td>\$</td> <td>1,316</td> </tr> <tr> <td colspan="4">Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL NATIONAL FEE =</b></td> <td>\$</td> <td>1,316</td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td>+</td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL FEES ENCLOSED =</b></td> <td>\$</td> <td>1,316</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">Amount to be refunded:</td> <td>\$</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">charged:</td> <td>\$</td> </tr> </table> <p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,316.</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required by 37 CFR §1.16 and 1.17, or credit any overpayment to Deposit Account No. 25-0120. A duplicate copy of this sheet is enclosed.</p> <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>SEND ALL CORRESPONDENCE TO:</p> <p><b>YOUNG &amp; THOMPSON</b></p> <p>745 South 23rd Street</p> <p>Second Floor</p> <p>Arlington, VA 22202</p> <p>CUSTOMER NO. <u>000466</u></p> <p>Tel. (703)521-2297</p> <p>Fax (703)685-0573</p> </div> <div style="width: 45%; text-align: center;"> <p>March 20, 2000</p> <p></p> <p>SIGNATURE:</p> <p>Benoit Castel</p> <p>NAME</p> <p><u>35,041</u></p> <p>REGISTRATION NUMBER</p> </div> </div> | CLAIMS       | NUMBER FILED | NUMBER EXTRA | RATE                   |       |  | Total claims | 32 - 20 = | 12 | X \$18.00 | \$ | 216 | Independent claims | 3 - 3 = | 0 | X \$78.00 | \$ |  | MULTIPLE DEPENDENT CLAIM(S) (if applicable) |  |  | + \$260.00 | \$ |  | <b>TOTAL OF ABOVE CALCULATIONS =</b> |  |  |  | \$ | 1,316 | Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28). |  |  |  | \$ |  | <b>SUBTOTAL =</b> |  |  |  | \$ | 1,316 | Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). |  |  |  | \$ |  | <b>TOTAL NATIONAL FEE =</b> |  |  |  | \$ | 1,316 | Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property |  |  |  | + | \$ | <b>TOTAL FEES ENCLOSED =</b> |  |  |  | \$ | 1,316 |  |  |  |  | Amount to be refunded: | \$ |  |  |  |  | charged: | \$ |
|--|--------------|--------------|--------------|------------------------|-------|--|--------------|-----------|----|-----------|----|-----|--------------------|---------|---|-----------|----|--|---|--|--|------------|----|--|--------------------------------------|--|--|--|----|-------|--|--|--|--|----|--|-------------------|--|--|--|----|-------|--|--|--|--|----|--|-----------------------------|--|--|--|----|-------|--|--|--|--|---|----|------------------------------|--|--|--|----|-------|--|--|--|--|------------------------|----|--|--|--|--|----------|----|
| CLAIMS   | NUMBER FILED | NUMBER EXTRA | RATE         |                        |       |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
| Total claims   | 32 - 20 =    | 12           | X \$18.00    | \$                     | 216   |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
| Independent claims   | 3 - 3 =      | 0            | X \$78.00    | \$                     |       |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |              | + \$260.00   | \$                     |       |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |              |              | \$                     | 1,316 |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
| Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).   |              |              |              | \$                     |       |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
| <b>SUBTOTAL =</b>  |              |              |              | \$                     | 1,316 |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).   |              |              |              | \$                     |       |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
| <b>TOTAL NATIONAL FEE =</b>  |              |              |              | \$                     | 1,316 |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
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| <b>TOTAL FEES ENCLOSED =</b>   |              |              |              | \$                     | 1,316 |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
|  |              |              |              | Amount to be refunded: | \$    |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |
|  |              |              |              | charged:               | \$    |  |              |           |    |           |    |     |                    |         |   |           |    |  |   |  |  |            |    |  |                                      |  |  |  |    |       |  |  |  |  |    |  |                   |  |  |  |    |       |  |  |  |  |    |  |                             |  |  |  |    |       |  |  |  |  |   |    |                              |  |  |  |    |       |  |  |  |  |                        |    |  |  |  |  |          |    |